HighPoint Technologies,Inc.

RocketRAID 1640

Four-channel Serial ATA RAID 5 Host Adapter

Compatible With All IDE Hard Disks

Thin Cable Lower the Thermal & Improve Airflow

RAID 5

- Supports data transfer rate up to 1.5 Gb/s
- IDE hard disk compatible (with RocketHead 100 converter)
- Better connectivity (low pin count, small cable and connector)
- Thin cable for easy routing and improving cooling inside a computer chassis
- Supports RAID 0, 1, 10, 5 and JBOD
- Bootable disk or disk array support
- Supports OSs like: Windows 9x/ME/NT4.0/2k/XP, Linux (Red Hat, SuSE, Turbo, Caldera), and FreeBSD
- Windows-based RAID configuration & management software tool (compatible with BIOS)
- Real-time monitoring of device status and error alarm with popup message box and beeping
- Event log for easy troubleshooting

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www.highpoint-tech.com

RocketRAID 1640

Serial ATA Overview

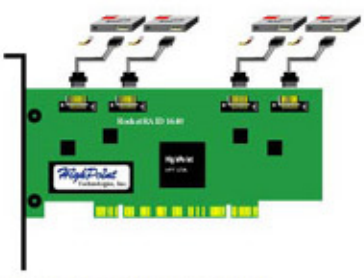
Serial ATA is a high performance interface for IDE storage devices, and is the evolutionary replacement for the longstanding ATA physical storage interface. It is a practical add-on solution that is compatible with today's leading operating systems, and can be utilized alongside the existing PC architecture without the need for physical modification. Serial ATA is scalable and will allow for future enhancements of the computing platform. Serial ATA's efficient design further simplifies system integration.

RAID 5 Create Data Parity

RAID 5 includes a rotating parity array, thus, all read and write operations can be overlapped. RAID 5 stores parity information but not redundant data. It requires at least three disks to provide the most economic way to maximize data capacity with faster transfer rate.

Thin Cable Is Easy Routing and Improving Cooling Inside A Computer Chassis

Serial ATA architecture replaces the wide ATA ribbon cable with a thin, flexible cable that is up to 1 meter in length. The smaller cables and connectors, improved silicon design, and lower voltage requirements alleviate many shortcomings of the current ATA specifications. The thin Serial ATA cables also significantly improve airflow within a computer's chassis - this helps combat the risk of damage to vital PC components due to excessive heat retention.



All IDE Hard Disk Compatible

HighPoint Technologies Inc. offers several new products that take advantage of this groundbreaking ATA technology: One of them is RocketRAID 1640 host adapter with RocketHead 100 converters. The products will prove to be great assets for the end user - they provide a simple and cost-effective way to upgrade their existing storage devices. HighPoint's Rocket series Serial ATA RAID host adapters are not only compatible with Serial ATA hard disks, but also support all standard IDE hard disk drives.

Serial ATA RAID Function and High Performance

Serial ATA provides multi level RAID supports including RAID 0, 1, 10, and 5, JBOD, as well as powerful software management functions. RocketRAID 1640 Serial ATA RAID controller's performance increase to 1.5Gb/s

Performance comparison:

Serial ATA Performance:

Windows-based Utility For Easy RAID Configuration/ Management

In addition to the BIOS configuration utility, RocketRAID 1640 includes Windows-based RAID configuration software. Serial ATA is compatible with IDE ATA software, which provides backward compatibility with existing operating environments. It can be run with Microsoft Windows 9x/2K/NT/XP and Linux operating systems without the need for any special software drivers.

An Ideal Home and Business Solution

As a high-performance, affordable RAID solution, RocketRAID 1640 makes sense for nearly any corporate, industrial, home environment and so forth. RocketRAID 1640 Serial ATA controller is ideal for LAN servers, critical business data storage, game user, and high-end personal storage etc.

RocketRAID 1640 Specification

Host Side Interface	32bit, 33MHz/66MHz PC
Disk Interface	Serial ATA/ IDE
Number of Channels	Four Channels
Allowed Disk Connection	Four Hard Disks
Supported RAID Levels	RAID 0, 1, 10, 5, JBOD
Supported OSs	Windows 9x/Me/NT4.0/2K Windows XP, Red Hat, SuSE, Turbo, Caldera Linux and FreeBSD
RAID Management Tool	BIOS Windows-based Management Software
Some Highlighted Features	Automatic E-mail notification when error occurs Bootable array support Large LBA support capacity exceeding 137GB

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